

Haorui Zhang

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HW2 Bonus

1. No. Because there is no different between a signed number and an unsigned number in the memory. We need to use instructions to tell. Other than that, the concept signed, and unsigned numbers is for our convenience while treating numbers in compliers.
2.
 - a. Largest: 0000 0000 0000 0111 1111 1111 1111
 - b. Smallest: 1111 1111 1111 1111 1111 1111 1111

3.

Both are fine with adding 4 to the register since neither of them cause overflow.